PROJECT DESCRIPTION A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR. DESCRIPTION QUANTITY NEMA SIZE "6" BASE MOUNTED CABINET WITH VIDEO INTERFACE 1 EA I. GENERAL: FOR 1 TO 8 CAMERAS Phase 1.+ 5 THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + DW SHEET ALUMINIUM GROUND MOUNTED SIGNS 1 & 5 Change 57 SF TRAFFIC SIGNAL AT MD 185 (CONNECTICUT AVENUE) AND MANDR 2 EA R4-7 (24" x 30") ROAD IN CHEVY CHASE, MONTGOMERY COUNTY. Phase 1 + 6 $2 EA R10-7 (24" \times 30")$ 1,+ 6 Change DW MD 185 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. DW 1 EA ASSOCIATED SHIELD ASSEMBLY SIGN, "NORTH, MD 185, R I Phase 2 + 5 (LEFT ARROW)" 36" X 75", DW 2 + 5 Change II. INTERSECTION OPERATION: DW 1 EA ASSOCIATED SHIELD ASSEMBLY SIGN, " SOUTH, MD 185, Phase 2 + 6 THE INTERSECTION OPERATES IN 6 PHASES WITH NORTHBOUND AND (LEFT ARROW)" 36" X 75", Ped Clearance SOUTHBOUND EXCLUSIVE/PERMISSIVE LEFT TURNS. MD 185 THROUGH R | FL/DW | FL/DW | DW DW and Countdown MOVEMENTS OPERATE CONCURRENTLY. MANOR ROAD (MOVEMENTS) OPERATE CONCURRENTLY. AUDIBLE PEDESTRIAN PUSHBUTTON 2 + 6 Change MOVEMENTS SHALL BE PROVIDED TO CROSS THE NORTH/SOUTH LEGS SHEET ALUMINIUM POLE MOUNTED SIGNS 32 SF Phase 4 + 8 OF MD 185 AND THE EAST/WEST LEGS OF MANOR ROAD. 4 EA R10-4(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN 4 + 8 Change A NEMA SIX-PHASE, FULL-ACTUATED CONTROLLER WITH VIDEO DETECTOR "TO CROSS CONNECTICUT AVENUE" (9"x 15") Phase 4 Alt + 8 Alt INTERFACE UNIT, 2 WIRE CENTRAL CONTROL UNIT, AND ALL OTHER 4 EA R10-4(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS MANOR ROAD" (9"x 15") NECESSARY EQUIPMENT HOUSED IN A BASE-MOUNTED CABINET SHALL BE Ped Clearance DW | FL/DW | FL/DW | and Countdown INSTALLED AT THE INTERSECTION. 1 EA ASSOCIATED SHIELD ASSEMBLY SIGN, " NORTH, MD 185, Alt + 8 Alt Change (RIGHT ARROW)" | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | DARK | DARK | DARK | DARK | C 24" X 51", POLE MOUNTED HARDWARE Flashing III. SPECIAL NOTES: Operation 1 EA ASSOCIATED SHIELD ASSEMBLY SIGN, " SOUTH, MD 185, 1. APS WILL FUNCTION AS FOLLOWS: (RIGHT ARROW)" DΖ 24" X 51", POLE MOUNTED HARDWARE TO CROSS MD 185 (CONNECTICUT AVENUE) WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON SHEET ALUMINIUM OVERHEAD SIGNS 115 SF FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS CONNECTICUT AT MANOR," $4 EA R3-5 (30" \times 36")$ WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID A,B,L,M, TICK WHICH WILL LAST FOR THE DURATION OF THE WALK 4 EA D-3(1) (96" \times 16") J,V,a,e, PHASE. 4 EA D-3(1) $(96" \times 20")$ A, B, D, DD, TO CROSS MANOR ROAD A,B,L,M, V,CC,a,<u>1/C</u> WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON V.W.a.d. FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE EQUIPMENT LIST "A" "WAIT TO CROSS MANOR AT CONNECTICUT." WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID A. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY AND INSTALLED BY THE CONTRACTOR. TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. DESCRIPTION QUANTITY 2. THE CONTRACTOR SHALL PURCHASE AND DELIVER THE 2-WIRE CENTRAL SPLICE CABINET - POLE MOUNTED oic — CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP, AT 7491 CONNELLY ROAD, HANOVER, MD 21076, MR, EDWARD RODENHIZER AT 410-787-7652 SHALL BE CONTACTED AT LEAST 3 DAYS PRIOR TO THE V,W<u>,</u>X,a,d, **EQUIPMENT LIST "B"** DELIVERY. B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR D,DD-D,DD,dQUANTITY DESCRIPTION ITEM NO. PROJECT CONTACTS а 3 EA MAINTENANCE OF TRAFFIC THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS: 4 CY TEST PIT EXCAVATION MR. JEFFERY WENTZ 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS MR. WAYNE MOWDY 660 LF F,G,H,b— ASSISTANT DISTRICT ENGINEER ASSISTANT DISTRICT ENGINEER 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS MAINTENANCE 170 LF - A,B,D,DD, - L,M,N,D,U, V,W,X,a,d, f PHONE: 301-513-7358 PHONE: 301-513-7304 5007 REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS (ANY WIDTH) 800 LF G,H,b,f :-MR. KEVIN NOWAK MS. AUGIE REBISH ASSISTANT DISTRICT ENGINEER STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12" GUTTER PAN / 8" DEPTH 6001 ASSISTANT DISTRICT ENGINEER 240 LF CONSTRUCTION UTILITIES 6002 PHONE: 301-513-7350 PHONE: 301-513-7385 1210 SF 5" CONCRETE SIDEWALK EE,a,b,c, G,H,P,Y, CC,b,f 8001 MR. EDWARD RODENHIZER CHIEF, OOTS SIGNAL OPERATIONS 2 WIRE CENTRAL CONTROL UNIT MR. EUGENE BAILEY 1 EA T,BB,CC — TEAM LEADER 8007 AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS SIGNAL OPERATIONS 8 EA SIGN OPERATIONS PHONE: 410-787-7652 PHONE: 410-787-7676 — К,ЕЕ,С 8008 BREAKAWAY PEDESTAL POLE (ANY SIZE) 5 EA r-K,EE K,S,EE, AA,CČ,C MR. ROBERT SNYDER 8013 WIRING KEY LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD 8 EA ASSISTANT DIVISION CHIEF — PEPCO POLE 777423-0348 TRAFFIC OPERATIONS PS--/ 8017 MAST ARM POLE + 70 FT MAST ARM ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG) 1 EA PHONE: 410-787-7631 8018 MAST ARM POLE + 50 FT MAST ARM 3 EA ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG) 8021 REMOVE AND DISPOSE OF EXISTING EXUIPMENT (PER ASSIGNMENT) 1 EA K.R.S.T. V.V.W.X.BB. EQUIPMENT LIST "C" 8025 ELECTRICAL CABLE 2-CONDUCTOR 6 EA VIDEO DETECTION CAMERAAND CABLE (NO. 14 AWG) ALL EQUIPMENT AND OTHER MATERIALS TO BE REMOVED BY THE 8028 12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND) 300 LF CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 8029 3" WEATHERHEAD 1 EA TOD NO:XX444-23 dibig' - VIDEO DETECTOR WIRING 8030 SHA NO:MO526A5F/B5F 150 LF 1 COND 250 KCMIL MD 185@MANOR RD IC - 12-PAIR COMMUNICATION CABLE 8031 60 LF PULL BACK AND RE-ROUTE EXISTING CABLE STANDARD TYPE "A" COMBINATION CURB OIC - OVERHEAD 3 INTERCONNECTION CABLES UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED) 270 LF AND GUTTER CONSTRUCTION DETAIL PROPOSED ELECTRICAL SERVICE 1-COND UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED) 230 LF STATE OF MARYLAND 8036 DEPARTMENT OF TRANSPORTATION 150 LF WOOD SIGN SUPPORT 4"X4" STANDARD TYPE "A" COMBINATION CURB AND GUTTER PROPOSED SERVICE 1- COND STATE HIGHWAY ADMINISTRATION 8" DEPTH, 12" PAN (MD 620.02) (250 KCMIL) 8037 80 SF DETECTABLE WARNING SURFACES (COST OF AGGREGATE PLACED UNDER CURB & GUTTER OFFICE OF TRAFFIC & SAFETY DZ - CAMERA DETECTOR ZONE SHALL BE INCIDENTAL TO THE PRICE FOR CURB & GUTTER TRAFFIC ENGINEERING DESIGN DIVISION 8038 197 SF INSTALL GROUND MOUNTED / OVERHEAD SIGN - GROUND ROD 3/4" DIA x 10' LENGTH 8040 50 LF MD 185 (CONNECTICUT AVENUE) AT MANOR ROAD NO. 6 AWG STRANDED BARE COPPER GROUND WIRE - PROPOSED METERED SERVICE PEDESTAL VARIES IN CHEVY CHASE, MD 8042 1 EA METERED SERVICE PEDESTAL ■ - ELECTRICAL HANDHOLE FULL DEPTH SAW CUT 8044 40 FT ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG GENERAL INFORMATION SHEET 8046 7 EA ELECTRICAL HANDHOLE SCALE NONE DATE AUG 13, 2009 CONTRACT NO. AT9255185 8050 48 EA 12" LED SIGNAL HEAD SECTION CENTURY 8054 COUNTY ____MONTGOMERY_ 1200 LF ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG DESIGNED BY ENB 2.0" HOT MIX ASPHALT SUPERPAVE 12.5mm ENGINEERING LOGMILE _____15018501.95 DRAWN BY ____ENB_ FOR SURFACE PG 64-22, LEVEL 2 TOP OF SUBGRADE AND LIMIT 8056 ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG 1300 LF CONSULTING ENGINEERS - PLANNERS OF TYPE 2 EXCAVATION T.I.M.S. NO. <u>H 990</u> 6.0" PLAIN PORTLAND CEMENT CONCRETE FOR SLOT BACKFILL 1 FT. WIDE MODIFIED CHECKED BY 10710 GILROY ROAD 8057 ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG 1580 LF HUNT VALLEY, MD 21031 F.A.P. NO._____ TOD NO._ 8064 NOT TO SCALE 1 EA INSTALL SPLICE CABINET - POLE MOUNTED (3) 6.0" CRUSHER RUN AGGREGATE CR-6 SHEET NO. 2 OF 2 DRAWING NO. TS-2648B-GI 8065 INSTALL CONTROLLER AND CABINET - BASE MOUNT 1 EA

LOTTED: TUESDAY, NOVEMBER 10, 2009 AT 2:06:54 PM

ILE: PSG-P002_MD185&MANOR.DGN

EQU/IPMENT LIST "A"